

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P953257

Luminaire Tested: **GALN-SB6D-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58668 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

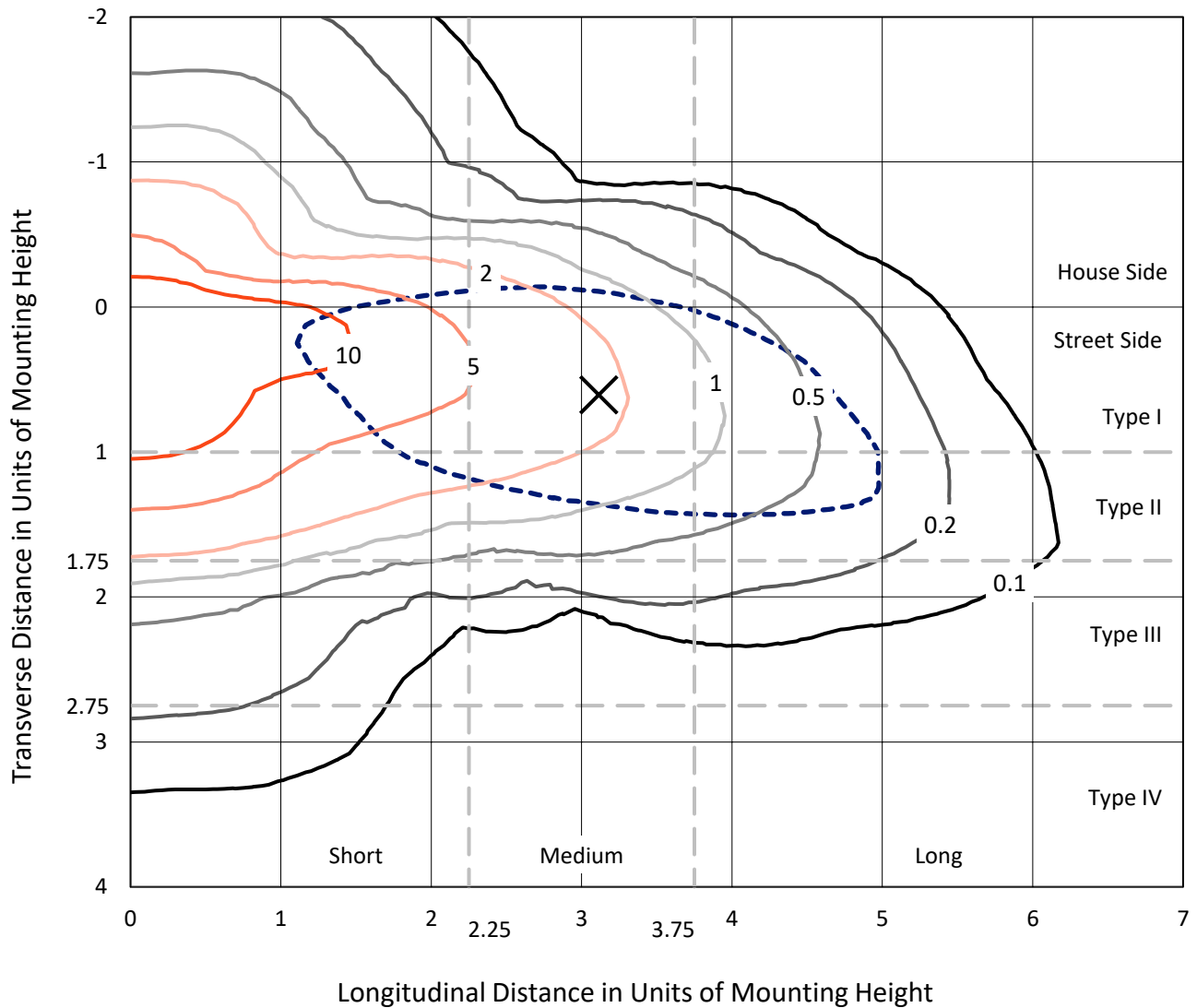
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

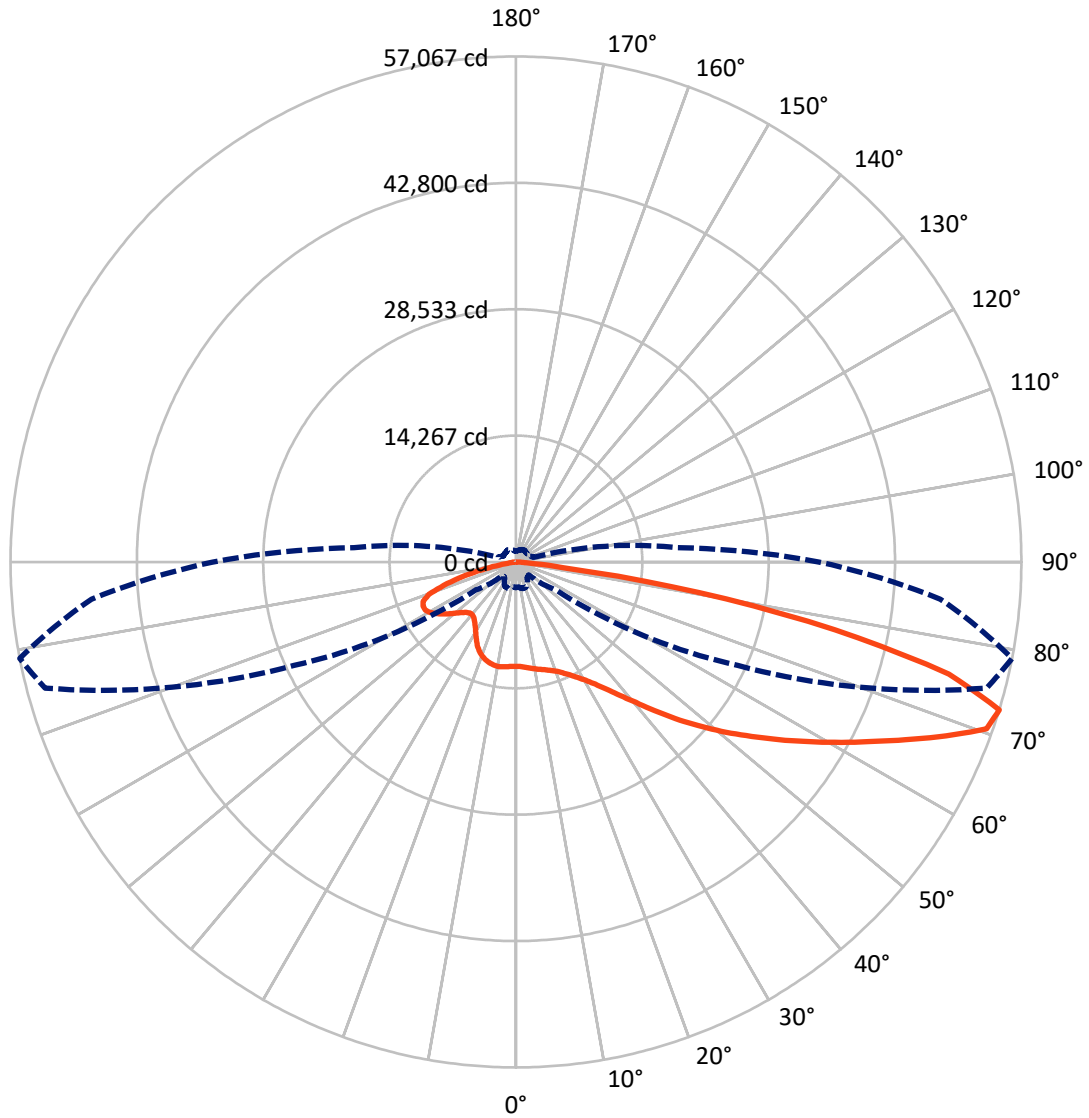
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12910.2	0.0	12910.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	45757.8	0.0	45757.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	58668.0	0.0	58668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1069.0	1.8
10°-20°	2794.9	4.8
20°-30°	4509.9	7.7
30°-40°	6768.7	11.5
40°-50°	9601.8	16.4
50°-60°	12125.8	20.7
60°-70°	12315.4	21.0
70°-80°	8393.5	14.3
80°-90°	1089.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	58668.0	100.0
0°-180°	58668.0	100.0

Coefficient of Utilization



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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5366.7	9.1			
FM (30°-60°)	22881.7	39.0			
FH (60°-80°)	16689.1	28.4			G5
FVH (80°-90°)	820.3	1.4			G5
BL (0°-30°)	3007.2	5.1	B4/5000		
BM (30°-60°)	5614.6	9.6	B4/8500		
BH (60°-80°)	4019.8	6.9	B4/5000		G4/5000
BVH (80°-90°)	268.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0
2.5°	11783.2	11727.4	11761.5	11749.1	11764.6	11783.2	11789.5	11798.8	11829.8	11826.7
5°	11758.4	11702.6	11749.1	11733.6	11773.9	11817.4	11854.6	11888.8	11938.4	11960.1
7.5°	11705.7	11668.4	11715.0	11761.5	11836.0	11901.2	11953.9	12031.5	12102.9	12115.3
10°	11398.4	11370.5	11479.1	11600.2	11805.0	11981.9	12096.7	12186.7	12264.3	12276.7
12.5°	11078.8	11044.7	11165.7	11330.2	11662.2	11981.9	12223.9	12341.8	12410.1	12450.5
15°	11026.0	10998.1	11066.4	11209.1	11485.3	11898.1	12310.8	12528.0	12587.0	12633.6
17.5°	11280.5	11227.8	11255.7	11305.3	11466.7	11820.5	12379.1	12739.1	12829.1	12878.7
20°	11870.1	11795.7	11752.2	11652.9	11625.0	11832.9	12372.9	12993.5	13111.5	13173.5
22.5°	12655.3	12605.6	12512.5	12261.2	11988.1	11985.0	12490.8	13319.4	13539.7	13598.7
25°	13604.9	13530.4	13412.5	13071.1	12546.7	12286.0	12689.4	13735.2	14104.5	14120.0
27.5°	14697.3	14585.5	14424.2	13974.2	13266.6	12757.7	12993.5	14213.1	14753.1	14746.9
30°	15848.6	15736.9	15566.2	15020.0	14129.3	13393.9	13415.6	14728.3	15522.7	15488.6
32.5°	16689.6	16605.8	16571.6	16149.6	15122.4	14144.9	13899.7	15299.3	16472.3	16441.3
35°	17335.1	17226.4	17266.8	17052.7	16205.5	14985.9	14492.4	15978.9	17626.8	17623.7
37.5°	17974.3	17878.1	17912.3	17769.5	17207.8	16053.4	15215.5	16810.6	19057.4	19125.7
40°	18557.8	18455.4	18591.9	18458.5	17986.8	17189.2	16037.9	17750.9	20714.6	20844.9
42.5°	18908.4	18827.8	19054.3	19057.4	18663.3	18148.1	16940.9	18787.4	22632.4	22924.1
45°	19029.5	19001.5	19342.9	19414.3	19262.2	18703.6	17754.0	19917.0	24699.2	25220.6
47.5°	18899.1	18846.4	19318.1	19581.9	19702.9	18964.3	18427.4	21139.7	26809.5	27572.9
50°	18241.2	18138.8	18840.2	19395.7	19827.0	19135.0	19107.1	22551.7	29208.3	30043.1
52.5°	17058.9	16981.3	17778.8	18744.0	19553.9	19218.8	19870.5	24094.1	31486.1	32566.1
55°	15547.6	15445.1	16323.4	17583.3	18874.3	19190.8	20633.9	25819.5	34173.6	35269.1
57.5°	13151.8	12947.0	14058.0	15547.6	17766.4	19156.7	21428.3	27535.6	36904.5	38217.2
60°	9657.5	9353.4	10715.7	12481.5	15600.3	18824.6	22412.1	29459.7	40181.6	41364.0
62.5°	5623.2	5446.3	6336.9	7984.8	11758.4	16869.6	22964.5	31697.2	43402.8	44644.1
65°	4366.4	4316.7	4394.3	4521.5	6544.9	12630.5	21260.7	33878.8	47499.2	48368.1
67.5°	3994.0	3956.7	3990.9	3751.9	3320.5	7035.2	16819.9	34431.2	51887.3	52414.8
70°	3550.2	3506.7	3618.5	3413.6	2613.0	3199.5	10867.8	32426.4	55378.5	56368.4
72.5°	2892.3	2842.6	3103.3	3010.2	2200.2	2054.4	5458.7	27662.9	55012.3	57066.7
75°	2222.0	2194.0	2504.4	2581.9	1793.7	1616.8	2619.2	20562.5	48411.6	50481.5
77.5°	1725.4	1703.7	1862.0	2144.4	1446.1	1253.7	1610.6	13043.2	36482.5	36845.5
80°	1294.1	1232.0	1377.9	1660.3	1126.5	915.5	1092.4	7606.2	23060.7	20903.9
82.5°	810.0	778.9	900.0	1107.9	794.4	630.0	710.7	4201.9	9241.6	5443.2
85°	462.4	450.0	490.3	633.1	431.4	363.1	406.5	1855.8	1688.2	1160.6
87.5°	186.2	180.0	223.4	282.4	158.3	133.4	142.8	446.9	372.4	344.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11777.0	0°	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0	11777.0
11823.6	2.5°	11811.2	11811.2	11767.7	11699.5	11621.9	11572.2	11491.5	11469.8	11386.0	11361.2
11929.1	5°	11953.9	11929.1	11795.7	11603.3	11339.5	11097.4	10830.5	10663.0	10427.1	10343.3
12137.0	7.5°	12133.9	12065.7	11836.0	11414.0	10861.6	10318.5	9753.7	9325.4	8915.8	8769.9
12307.7	10°	12298.4	12202.2	11811.2	11072.6	10116.8	9176.5	8276.5	7646.5	7168.6	6973.1
12497.0	12.5°	12462.9	12286.0	11646.7	10504.7	9058.5	7783.1	6824.2	6333.8	6039.0	5803.2
12652.2	15°	12618.0	12369.8	11392.2	9744.4	7897.9	6603.8	5896.3	5505.3	5269.4	5114.2
12878.7	17.5°	12798.0	12441.2	11010.5	8779.3	6793.1	5787.7	5210.4	4974.6	4928.0	4909.4
13189.0	20°	13049.4	12506.3	10507.8	7699.3	5980.1	5136.0	4838.1	4816.3	4813.2	4803.9
13561.4	22.5°	13319.4	12583.9	9843.7	6718.7	5288.0	4729.4	4676.7	4633.2	4605.3	4602.2
14011.4	25°	13639.0	12608.7	9012.0	5914.9	4698.4	4537.0	4475.0	4409.8	4391.2	4391.2
14523.5	27.5°	13949.4	12524.9	8043.8	5216.7	4366.4	4360.1	4279.5	4257.7	4254.6	4263.9
15106.9	30°	14259.7	12366.7	7081.7	4571.2	4173.9	4173.9	4146.0	4161.5	4173.9	4205.0
15907.5	32.5°	14678.6	12199.1	6278.0	4093.3	4006.4	3975.3	4003.3	4034.3	4046.7	4087.1
16959.6	35°	15293.1	12081.2	5638.7	3832.6	3832.6	3792.2	3807.8	3801.5	3773.6	3755.0
18231.9	37.5°	16106.2	12075.0	5111.1	3711.6	3686.7	3680.5	3683.6	3643.3	3534.7	3404.3
19771.2	40°	17083.7	12242.5	4704.6	3627.8	3609.1	3646.4	3627.8	3519.1	3221.2	2994.7
21664.2	42.5°	18396.4	12720.4	4443.9	3525.4	3581.2	3627.8	3553.3	3177.8	2976.1	2824.0
23821.0	45°	19941.8	13496.3	4310.5	3416.7	3528.5	3584.3	3224.3	3059.9	2898.5	2715.4
26173.3	47.5°	21692.1	14473.8	4279.5	3314.3	3410.5	3444.7	3084.7	3010.2	2827.1	2628.5
28538.0	50°	23597.5	15631.3	4363.2	3193.3	3239.9	3121.9	3038.1	2969.9	2780.6	2585.1
30961.7	52.5°	25568.1	16906.8	4530.8	3028.8	3069.2	2938.8	3019.5	2960.6	2752.6	2488.9
33466.0	55°	27504.6	18191.6	4692.2	2836.4	2895.4	2774.4	2966.8	2923.3	2625.4	2327.5
36138.0	57.5°	29472.1	19470.1	4850.5	2665.7	2727.8	2616.1	2883.0	2824.0	2482.6	2178.5
39055.1	60°	31517.2	20711.5	4924.9	2501.3	2544.7	2470.2	2755.7	2653.3	2321.3	2026.5
41922.5	62.5°	33431.9	21744.9	4803.9	2336.8	2364.7	2333.7	2588.2	2451.6	2159.9	1855.8
44911.0	65°	35352.9	22359.3	4431.5	2175.4	2181.6	2166.1	2352.3	2234.4	1970.6	1706.8
47527.1	67.5°	37093.8	22703.8	3838.8	2001.6	1986.1	1979.9	2132.0	1998.5	1787.5	1557.9
49516.3	70°	37463.1	21828.6	2932.6	1796.8	1796.8	1781.3	1889.9	1753.4	1585.8	1399.6
48091.9	72.5°	34217.0	18362.3	2082.3	1564.1	1588.9	1557.9	1647.9	1533.0	1381.0	1256.8
41447.7	75°	27591.5	13465.2	1514.4	1325.1	1368.6	1315.8	1399.6	1318.9	1188.6	1185.5
28562.8	77.5°	18958.1	8326.2	1098.6	1092.4	1123.4	1055.1	1151.3	1107.9	990.0	937.2
12431.8	80°	8090.3	3320.5	800.7	844.1	844.1	782.0	893.8	906.2	803.8	778.9
2398.9	82.5°	1610.6	943.4	561.7	580.3	546.2	527.6	633.1	701.3	968.2	1076.8
723.1	85°	484.1	347.6	338.3	316.5	279.3	282.4	372.4	704.5	868.9	496.5
239.0	87.5°	133.4	86.9	90.0	71.4	59.0	77.6	127.2	533.8	291.7	124.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
11777.0
11401.5
10405.4
8788.6
7016.6
5880.8
5142.2
4921.8
4834.9
4636.3
4409.8
4288.8
4226.7
4121.2
3798.4
3407.4
2988.5
2817.8
2703.0
2613.0
2563.3
2470.2
2312.0
2172.3
2017.1
1852.7
1688.2
1539.2
1393.4
1219.6
1067.5
878.2
778.9
1080.0
428.3
105.5
0.0

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